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spore-membrane, by which it is also distinguished from the other species of the *acuminata* group. These specimens show a variation in the character of the leaves of a verticil; they are frequently dimorphous, but never heterophyllous as in *N. clavata* A. Br. of the Pacific coast.

A similar heteromorphous character of the leaves (some simple and sterile, others branched and fertile) may also be found in *Nitella Blankinshippii* (found in the same region), and it has seemed possible that some transitional forms leading toward *N. clavata* A. Br. would be found, especially as in both of these species we find a tendency to an inflation of the terminals so commonly a character of *clavata*. But the difference between *heteromorpha* and true *heterophylla* is constant and fundamental in the development of the nodal cells, rather than accidental and variable.

Explanation of Plate 253.

Fig. 1, plant natural size; fig. 3, stem verticil and leaf $\times 25$; figs. 3 and 4, leaf nodes with terminals $\times 25$; fig. 5, nature spore $\times 50$.

Contributions to the Lichens of Maine.—II.

BY F. L. HARVEY.

The following list embraces lichens collected last August in the vicinity of Jackman and about Orono by the writer; about Bangor by Mr. O. W. Knight; at N. Lubec and in Aroostook Co., by Miss Cummings and Miss Teller. Miss Cummings' specimens were principally from the head waters of the St. John and were distributed in "Decades of N. A. Lichens." The Jackman specimens were from the headwaters of Penobscot, Kennebec and De Loup rivers. Sandy Bay Mt. mentioned in the list is 12 miles northeast from Jackman and on the Canadian boundary. The numbers above 115 are accessions to the State flora. Those below 115 refer to new localities for species mentioned in a previous list (BULLETIN, September, 1894. 389). We are under obligation to Miss Cummings for the examination of specimens.

Fam. USNEEI.

116. CETRARIA JUNIPERINA PINASTRI Ach.

On coniferous trees and rail fences, St. Francis, Aroostook Co., no. 94 (Cummings & Teller); Jackman and Orono (Harvey).

7. *C. ciliaris* Ach. On rail fences, Jackman (Harvey).

8. *C. lacunosa* Ach. On spruce trees; very finely developed; Bangor (O. W. Knight); Orono (Harvey).

15. *Usnea barbata plicata* Fr. Jackman (Harvey).

16. *U. longissima* Ach. On spruce trees, Jackman (Harvey).

17. *Alectoria jubata calybeiformis* Ach. Common, Jackman (Harvey).

Fam. PARMELIEI.

19. *Theloschistes concolor* (Dicks.). On apple trees, St. Francis, Aroostook Co., no. 99 (Miss Cummings); Orono (Harvey); Bangor (O. W. Knight).

117. T. Lychneus (Nyl.). On maple bark. Orono; (Harvey.)

21. *Parmelia tiliacea* (Hoffm.) Floerk. On various trees; St. Francis, Aroostook Co., no. 102 (Cummings & Teller); Jackman (Harvey).

23. *P. physodes* (L.) Ach. Jackman; (Harvey). Our specimens are like 9b in Dec. N. A. L. (Cummings).

118. *P. physodes obscurata* Ach. Orono (Harvey).

119. *P. olivacea* (L.) Ach. On cherry trees, St. Francis Aroostook Co., 105 (Cummings & Teller); Orono (Harvey).

120. *P. ambigua* (Wulf.) Ach. Dead and charred logs, St. Francis, 108 (Cummings & Teller).

121. *P. ambigua albescens* Wahl. With the above, 109 (Cummings & Teller).

32. *Physcia speciosa* (Wulf.) Nyl. On various trees, Glacial Lake, Aroostook Co., 110 (Cummings & Teller).

122. *P. hypoleuca* (Muhl.) Tuck. On Trees, Jackman (Harvey).

33. *P. stellaris* (L.). Orono (Harvey).

Fam. PELTIGERI.

123. *Pyxine sorediata* Fr. Specimens from Jackman seem to be this (Harvey).

42. *Sticta amplissima* (Scop.) Mass. Rocks and trees, Jackman (Harvey).

44. *S. pulmonaria* (L.) Ach. On trees, Jackman (Harvey).

124. *NEPHROMA ARCTICUM* (L.) Fr. On rocks; abundant; summit of Sandy Bay Mt., near Jackman (Harvey).

49. *Peltigera aphthosa* (L.) Hoffm. On earth and decaying logs; Ft. Fairfield, no. 160 (Cummings & Teller).

P. polydactyla (Neck.) Hoffm. Jackman (Harvey).

125. *P. CANINA SPONGIOSA* Tuck. Mossy logs, St. Francis, no. 118 (Cummings & Teller).

126. *P. CANINA SOREDIATA* Scheer, Ach. On earth, St. Francis, no. 119 (Cummings & Teller).

127. *P. CANINA SPURIA* Ach. Earth, St. Francis, 119 (Cummings & Teller).

Fam. COLLEMEI.

128. *LEPTOGIUM TENUISSIMUM* (Dicks.) Koerb. On earth and moss, Van Buren, 125a (Cummings & Teller).

129. *PLACODIUM AURANTIACUM* (Light.) Naeg. & Hepp, Orono (Harvey).

Fam. LECANOREI.

130. *LECANORA SUBFUSCA* (L.) Ach. Orono (Harvey).

131. *L. HAGENI* Ach. On logs in railroad embankment, Fort Fairfield, 132 (Cummings & Teller).

67. *L. varia* (Ehrh.) Nyl. Orono (Harvey).

132. *L. VARIA SYMMICTA* Ach. Rail fences; Van Buren, 167 (Cummings & Teller).

71. *Pertusaria multipunctata* (Turn.) Nyl. Maple trees; Mar's Hill, 135 (Cummings & Teller); Orono (Harvey).

72. *P. communis* DC. Rail fences, N. Lubec, 136 (Cummings & Teller).

133. *P. LEIOPLACA* (Ach.) Schaer. Rail fences, Van Buren, 137 (Cummings & Teller).

Fam. CLADONIEI.

76. *Sterocaulon paschale* (L.) Fr. Jackman (Harvey).

79. *Cladonia pyxidata* (L.) Fr. Rotten wood and earth, Alla-

quash Plantation, Aroostook Co., 139 (Cummings & Teller); Jackman (Harvey).

134. *C. FIMBRIATA TUBAEFORMIS* Fr. (Ground). Sandy Bay Mt. near Jackman (Harvey).

81. *C. gracilis verticillata* Fr. Jackman (Harvey); Bangor (O. W. Knight).

83. *C. gracilis hybrida* Schaer. Jackman (Harvey); Bangor (Knight).

84. *C. gracilis elongata* Fr. Earth, Sandy Bay near Jackman (Harvey).

86. *C. squamosa* Hoffm. Jackman (Harvey); Orono (Harvey); Bangor (Knight).

88. *C. furcata crispata* Fr. Jackman (Harvey).

135. *C. FURCATA RACEMOSA* Fl. In moss on rocks, head of Pamedomcook Lake, Falls of Tumble-down-Dick stream (Harvey); Bangor (O. W. Knight).

90. *C. rangiferina* (L.) Hoffm. Jackman (Harvey).

91. *C. rangiferina sylvatica* L. Jackman (Harvey).

93. *C. amaurocrea* (Fl.) Schaer. Jackman (Harvey).

94. *C. uncialis* (L.) Fr. Orono (Harvey).

136. *C. DEFORMIS* (L.) Hoffm. On earth and logs, St. Francis 141 (Cummings & Teller); Jackman (Harvey).

137. *C. DIGITALA* (L.) Hoffm. Rotten wood and earth, St. Francis 142 (Cummings & Teller).

100. *C. cristatella* Tuck. Earth, Sandy Bay Mt. (Harvey); Bangor (O. W. Knight).

Fam. LECIDEEL.

138. *BAEOMYCES BYSSOIDES* (L.) Schaer. Sandy banks, St. Francis, 144 (Cummings & Teller).

139. *BIATORA GRANULOSA* (Ehrh.). Bank, St. Francis, Tp. 18, R 10, Aroostook Co., 145 (Cummings & Teller).

140. *B. MILLIARIA* (Fr.). On wood, Orono (Harvey).

141. *LECIDEA MELANCHIMA* Tuck. Rail fences, N. Lubec, 146 (Cummings & Teller); Orono (Harvey).

108. *Buellia parasema* (Ach.) Th. Fr. Jackman (Harvey).

Fam. OPEGRAPHEL.

114. *GRAPHIS SCRIPTA* (L.) Ach. Birch bark, Jackman (Harvey).